

# REPORT

CD NO.

STAT

COUNTRY USSR

SUBJECT Economic; Technological - Agricultural machine  
HOW building

DATE OF INFORMATION 1953

HOW PUBLISHED Daily and thrice-weekly newspapers,  
WHERE monthly periodical

DATE DIST. 20 Jan 1954

WHERE PUBLISHED USSR

NO. OF PAGES 3

DATE  
PUBLISHED 20 Jun-27 Aug 1953

LANGUAGE Russian

SUPPLEMENT TO  
REPORT NO.

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NEW USSR MACHINES FOR INDUSTRIAL CROPS, VEGETABLES;  
WATER SUPPLY EQUIPMENT

PLANT PRODUCES VARIETY OF MACHINES -- Tbilisi, Zarya Vostoka, 15 Aug 53

The Tbilisi Agricultural Machine Building Plant has been in existence for 20 years. At first, its production was limited to garden grafting knives, harrows, honey collectors, and tractor parts. It also made minor tractor repairs. At present, the plant produces horse-drawn cultivators, plows, the Tremas device for spraying vineyards, log-sawing machines, hoisting devices, and locks for irrigation ditches. These products are shipped to various rayons in the Georgian SSR, as well as to the Tadzhik, Turkmen, and other SSRs. In 1953, the plant had an urgent order to repair 500 Tremas sprayers of various makes and types. It designed special parts which fitted all Tremas sprayers and was able to repair Tremas sprayers at the rate of 200 a month instead of 50 a month as estimated.

REF. CULTIVATOR -- Moscow, Literaturnaya Gazeta, 20 Jun 53

The Khar'kov Serp i Molot Plant will produce the ChS-1.5 cultivator designed by A. Kobzhandache, engineer of a special design bureau in Tbilisi. The ChS-1.5 cultivator will be used for cultivating tea, tobacco, corn, sunflower, and other tall-stalk crops. The ChS-1.5 cultivator is adapted for work on steep slopes.

NEW MACHINE FOR TEA PLANTATIONS -- Kiev, Pravda Ukrainy, 10 Aug 53

The Kiev Machinery Plant of Glavsel'mash (Main Administration of Agricultural Machine Building) has produced the ChSM-12 universal special tractor for tea plantations. Fifty of the ChSM-12 universal tractors will be delivered to Georgian tea plantations in 1950. A tea trimmer, a cultivator, an aeration and fertilizing machine can be mounted on the ChSM-12 tractor. The by-product 140 workers in tea-plant trimming work, 90 workers in cultivation and 100 workers in past control and fertilizing work, respectively.

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## TUNG NUT HULLERS -- Moscow, Sel'khoz mashina, Aug 53

Breaking up of the tung nut and removing the hulls from the nut present a difficult problem because the nuts may be either wet or dry. It is necessary therefore for the tung nut huller to be equipped with different working tools for wet and dry nuts. There are some manually operated machines now in use in the USSR for tung nut hulling: the OTKRS-500, the UVD-1, the UVD-2, and the UVD-3; also experimental models such as the OTK-500, the DB-1, the DB-2, and the DP-1. -- Engineer L. M. Karakhanov

## IMPROVE COTTON-PICKING MACHINE -- Stalinabad, Kommunist Tadzhikistana, 12 Aug 53

The Tashkent Tashsel'mash Plant has designed a new pneumatic cotton picker for picking cotton from the lower branches of the plant and also picking cotton up from the ground. Up to 75 percent of fallen cotton can be picked up by the new machine. Additional baskets have been provided for holding the cotton. These baskets have convenient unloading devices. A dust remover has been added.

## NEW MACHINES FOR AGRICULTURE -- Kiev, Pravda Ukrainy, 14 Aug 53

The Dnepropetrovsk Plant imeni K. V. Voroshilov is assembling 13 new types of agricultural machines. Among these is a two-row beet harvester which can put out almost the same amount of work as the three-row SKEM-3 beet combine, and requires considerably less metal than the SKEM-3 for its production.

## MORE SEEDLING PLANTERS -- Moscow, Moskovskiy Komsomolets, 27 Aug 53

Six hundred seedling planters will be delivered to kolkhozes of Moskovskaya Oblast before 1 March 1954. Planting seedlings in pots made of peat will contribute to carrying out plans for a 500,000-ton vegetable crop in 1954, and a 700,000-ton vegetable crop in 1955 in Moskovskaya Oblast.

## NEW SPRINKLING MACHINE -- Moscow, Komsomol'skaya Pravda, 25 Jul 53

A new sprinkling machine, drawn by the DT-54 tractor, is now in use in the USSR. The machine is a simple two-wheel device, consisting of a hose for drawing water, a pump, and a sprayer. The sprayer sends a fine spray 95 meters long. In one hour, the machine covers 0.3 hectare with 300 cubic meters of water.

## BUILD NEW WIND PUMP -- Alma-Ata, Kazakhstanskaya Pravda, 5 Aug 53

The Kazakhstan Institute for Mechanization and Electrification of Agriculture, a branch of the All-Union Academy of Agricultural Sciences imeni Lenin, has designed the DOK-4 wind-powered water pump for pumping water from wells. The pump consists of 11 parts. The heaviest part weighs 130 kilograms and can be assembled and installed in 3 hours. With wind velocity from 5 to 6 meters per second, the DOK-4 pump is capable of pumping 6,000 liters of water in one hour from a well 20 meters deep, enough water for 2,000 sheep. The pump is equipped with a water storage tank.

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The Semipalatinsk Machine Plant has produced 12<sup>1</sup>/<sub>2</sub> DDK-4 pumps and plans to produce 100 more before the end of 1953. The pump weighs 650 kilograms. Designers were able to make the pump 20 kilograms lighter by continuously improving its design.

BUILD ARTESIAN WELL DIGGERS -- Alma-Ata, Kazakhstanskaya Pravda, 26 Aug 53

The Toguzak Repair Plant, Kustanayskaya Oblast, is producing artesian well diggers mounted on the frame of the ZIS-150 truck. The machine digs wells 100 meters deep.

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